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ABSTRACT

This social studies guide, for use in grades 7 and 8, is one of a series of guides, K-12, that were developed by teachers to help introduce environmental education into the total curriculum. The guides are supplementary in design, containing a series of episodes (minilessons) that broaden the student's views of environmental problems through social studies activities. The episodes are built around 12 major environmental concepts that form a framework for each grade or subject area, as well as for the entire K-12 program. Although the same concepts are used throughout the K-12 program, emphasis is placed on different aspects of each concept at different grade levels or in different subject areas. This quide focuses on aspects such as sociology, economics, psychology, and political science. The 12 concepts are covered in one of the episodes contained in the guide. Further, each episode offers subject area integration, subject area activities, interdisciplinary activities, cognitive and affective behavioral objectives, and suggested references and resource materials useful to teachers and students. (Author/TK)



LET NEWNORTH NEW TENTE EDWCATIO

SOCIAL SI ENVIRONHENT HATTSIEBTTS BEZT COPY AVAILABLE

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Wisconsin Area "B" Regional Project Serving All Schools in Cooperative Educational Service Agencies 3-8-9

Coordinator, C.E.S.A. #3 Ludwig Petersen Coordinator, C.E.S.A. #9
Project Administrator John F. David Kenneth Poppy Coordinator, C.E.S.A. #8

In 1969, the First Environmental Quality Education Act was proposed in the United States Congress. At the time of the introduction of that legislation, I stated:

"There is a dire need to improve the understanding by Americans of the ominous deterioration of the Nation's environment and the increasing threat of irreversible ecological catastrophe. We must all become stewards for the preservation of life on our resourcedeficient planet."

In the three years since the Environmental Education Act was passed by the Congress, much has happened in the United States to reinforce the great need for effective environmental education for the Nation's young people. The intensive concern over adequate energy resources, the continuing degradation of our air and water, and the discussion over the economic costs of the war against pollution have all brought the question of the environmental quality of this nation to a concern not merely of aesthetics but of the survival of the human race.

The intense interest by the public in the quality of our lives

as affected by the environment clearly indicates that we cannot just use incentives and prescriptions to industry and other sources of pollution. That is necessary, but not sufficient." The race between education and catastrophe can be won by education if we marshall our resources in a systematic manner and squarely confront the long-term approach to saving our environment through the process of education.

As the incessant conqueror of nature, we must reexamine our place and role. Our world is no longer an endless frontier. We constantly are feeling the backlash from many of our ill-conceived efforts to achieve progress.

Rachel Carson's theme of "reverence for life" is becoming less mystical and of more substance as our eyes are opened to much of the havoc we have wrought under the guise of progress. A strong commitment to an allembracing program of environmental education will help us to find that new working definition of progress that is a pre-requisite to the continued presence of life on this planet.

Senator Gaylord Nelson

PREFACE

education has never been so intense as it is today. This concern is exhibited by industry, interest groups and governmental agencies and by the young, those individuals you are natural resources--sound familiar? The apparent need for environmental quality through The energy crisis, overpopulation, air and water pollution and the depletion of man's

existing world environmental problems. Sociology, economics, psychology, political science, attitudes, clarify values and promote decision making. just that. Man's manipulation of his world and his basic survival have vast implications students' view of environmental problems, and you as a teacher have the opportunity to do history or geography--all lend their insights into preserving and conserving the environment. for social studies classes. Social studies offers excellent avenues of exploration into problems and potential solutions. Nevertheless, students' views of a problem are usually Integrated environmental education materials like this guide allow the student to develop limited to the obvious and confined to the local community. Now is the time to broaden the Seventh and eighth graders have a noticeable awareness of their environment, its

suggested are limitless; the learning avenues for environmental education are open to you. materials to supplement your present social studies program. The possibilities herein Through Project I-C-E (Instruction-Curriculum-Environment), you have the necessary



ACKNOWL EDGEMENT

Project I-C-E Environmental Education K-12 series: The interest and dudicated effort of the fellowing teachers from Wisconsin Area "B" has led to the development of the

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DIRECTIONS FOR USING THIS GUIDE

This guide contains a series of episodes (mini-lesson plans), each containing a number of suggested in and out of class learning activities. The episodes are built around 12 major environmental concepts that form a framework for each grade or subject area, as well as for the entire K-12 program. Further, each episode offers subject area integration, multicable, both cognitive and affective behavioral objectives and suggested reference and resource materials useful to the teacher and students.

- in design--it is not a complete course of study, nor is its arrangement sequential. You can teach environmentally within the context of your course of study or units by integrating the many ideas and activities suggested.
- 2. The suggested learning activities are departures from regular text or curriculum programs, while providing for skill development.

- 3. You decide when any concepts, objectives, activities and resources can conveniently be included in your unit.
- 4. All episodes can be adapted, modified, or expanded thereby providing great flexibility for any teaching situation.
- area has its own topic or unit emphasis, inter-grade coordination or subject area articulation to avoid duplication and overlap is highly recommended for any school or district seeking effective implementation.

This total K-12 environmental education series is the product of 235 classroom teachers from Northeastern Wisconsin. They created, used, revised and edited these guides over a period of four years. To this first step in the 1,000 mile journey of human survival, we invite you to take the second step-by using this guide and by adding your own inspirations along the way.

PROJECT I-C-E TWELVE MAJOR ENVIRONMENTAL CONCEPTS

- 1. The sun is the basic source of energy on earth. Transformation of sun energy to other energy forms (often begun by plant photosynthesis) provides food, fuel and power for life systems and machines.
- 2. All living organisms interact among themselves and their environment, forming an intricate unit called an ecosystem.
- 3. Environmental factors are limiting on the numbers of organisms living within their influence. Thus, each ecosystem has a carrying capacity.
- 4. An adequate supply of clean water is essential to life.
- 5. An adequate supply of clean air is essential for life.
- 6. The distribution of natural resources and the interaction of physical environmental factors greatly affect the quality of life.

- 7. Factors such as facilitating transportation, economic conditions, population growth and increased leisure time influence changes in land use and population densities.
- 8. Cultural, economic, social, and political factors determine man's values and attitudes toward his environment.
- 9. Man has the ability to manage, manipulate and change his environment.
- 10. Short-term economic gains may produce long-term environmental losses.
- 11. Individual acts, duplicated
 or compounded, produce sig nificant environmental
 alterations over time.
- 12. Each person must exercise stewardship of the earth for the benefit of mankind.

A "Concept Rationale" booklet and a slide/tape program "Man Needs His Environment" are available from the I-C-E RMC to more fully explain these

TABLE OF CONTENTS

10	9	Φ	7	თ	ប ា	4	ω	~>	1	Concept
Geography or Current Events Eurasian History, Geography, Current Events Economic Geography, Current Events	Geography	Economics Current Events Geography - Urban Growth Comparative Economics Geography - Conservation	Economic Geography Sociology Sociology - Population Density	Ancient History or Geography Economic Geography	Current Events Regional Geography or Current Events Cultural Geography or Current Events	Geography History or Geography	Sociology, Population Trends Carrying Capacity and/or Current Events Geography or Current Events	Ancient History or Anthropology U.S. History, Geography, Current Events	Ancient History - Geography Ancient History	Topic
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12	-	Concept
Geography or Government Sociology, Government	Economics, Geography History - Middle Ages	Topic
73 75	69 71	Page No.



	E. S. E. A.	Title III - PR	OJECT	I-C-E	59-7 0-013	54	1			- 1 - 7 - 1
Skills Used: 1. Ability to construct charts. 2. Oral skills. 3. Comparison/contrast.		Affective: Gain an appreciation of man's total dependence on the sun from the food that he eats and the material that he uses by tracing all food back to the sun.		energy from the sun is converted to a form all living things can use for life.	List four ways that early man depended on plant life; direct-ly through berries, etc. or indirectly through animals thus	Cognitive:	BEHAVIORAL OBJECTIVES	ORIENTATION Energy Resources	CONCEPT NO. 3 - Energy	Environmental:
	E. Name present-day activities that resemble the food gather-ing and hunting practices of early man.	D. Construct life cycle chart which will show position of man in relation to the plants and animals of his environment.	<pre>C. List types of plants and an- imals consumed by early man.</pre>	B. Prepare reports to be given to l class on life style of early man. Food gathering, hunting, etc.	A. Draw and describe or construct tools and weapons used by primitive men.	In-Class:	STUDENT-CENTERED LEA	TOPIC/UNIT And	SUBJECT Soc	Integrated with:
7			C. Locate book dealing with early man.	B. Visit a museum to observe tools used by early man.	A. Conduct a field trip of an available area to find examples of foods used by early man. (survival food).	Outside or Community:	LEARNING ACTIVITIES	Ancient History - Geography	Social Studies	

Publications:

How the First Men Lived,
Hogben, Lancelot.
Man's First Million Years,
Lucas, Jannette.

Prehistoric Man
Time Life Series

Magazines - National Geographic
Appropriate Current
Articles

Audio-Visual:

Film #220: A World Is Born I-C-E - RMC

Kit 6: Crisis of the Environment I-C-E - RMC

Community:

Local Museum of Natural History
- Exhibition on Primitive Man

State Historical Society
- History of Local Primitive Man

CONTINUED OR ADDED LEARNING ACTIVITIES



S. E. A. Title III PROJECT I-C-E 59. -70--0135 ORIENTATION CONCEPT NO. **Environmental:** Skills Used: Affective: Cognitive: BEHAVIORAL OBJECTIVES ? god (Ra-Egyptian, Sun God). man considered the sun as a State two reasons why early America's adoration of the sun. Suggest comparisons with God of the Egyptians. (Examples - sun tan, bathing, through a study of Ra, the Sun Location skills: Use of Text Use of books Append ix Pictures & Cartoons Index Table of contents 1 - Energy <u>Energy Resources - Sun</u> C. . D <u>.</u> A in-Class: Creation of a chart of sun Discussion of man's dependency View Egyptian art work on the early man's feelings. on the sun. statues, ceremonies worship practices-legends, towards the sun. Study the attitude of the Aztec STUDENT-CENTERED LEARNING ACTIVITIES Attempt to justify SUBJECT Integrated with: TOPIC/UNIT Ancient History Social Studies œ **Outside or Community:** Observation of plant life create a bibliography of ref-Using your media center, store to compile a list of Egyptian sun worship. photosynthesis and the erence books dealing with Americans. sun-related products used by Visitation to a department areas or forested area. haps school lawn and shrub in sun and shade areas, per-Q

(continued)

Publications:

Books: World Book Encyclopedia, Egypt. Magazines: Random House, 1961.

Life

National Geographic Natural History

Audio-Visual:

6949 Sun's Energy, color, 14 min. Bureau of Audio-Visual Instructions Madison, Wisconsin 53701 Kit 9, Environmental Quality Index, America Is in Trouble, Art Teacher. P. 0. Box 2093 I-C-E 1327 University Avenue

Community:

Department Store

CONTINUED OR ADDED LEARNING ACTIVITIES

SKILLS (continued)

- 3. Use of reference materials: Encyclopedias Readers Guide
- Organization skills: Note taking Card Catalog
- Making charts Evaluation information: Reading for a purpose Making inferences



Environmental:		Integrated with:	ਜ਼
CONCEPT NO.	CONCEPT NO. 2 - Ecosystem	SUBJECT _	Social Studies
ORIENTATION	ORIENTATION Ecosystem Community	TOPIC/UNIT	Ancient History or Anthropology
CKIENIAIOS			

		E. S. E. A. Title	III - PR	OJECT I-C-	E 59-7	00135	5-4			
c. Read and interpret chart	Skills Used: Skills of making a chart. 1. Gather illustrations. a. Discuss and explain b. Put an example on board		Affective: Volunteer to find information from other sources that illus- trate the type of relationship		acted with his ecosystem.	ict a cha	- 1	BEHAVIORAL OBJECTIVES	ORIENTATION Ecosystem Community	CONCEPT NO. 2 - Ecosystem
		Stone Age.	<pre>C. Prepare written reports com- paring the equipment and methods of hunting and fish- ing today with those of the</pre>	beginning with the earliest forms and show how the refinement of implements was accompanied by a rise in standard of living.	picture one Age in	make a large	In-Class:	STUDENT-CENTERED L	TOPIC/UNIT _	SUBJECT
		C. Sporting goods presentation on new fishing techniques and equipment.	those of cody. B. Visit to a natural history muse-	repa f po nd s re f		A. Fishing trip. 1. Students bring their 1. Students bring their	Outside or Community:	LEARNING ACTIVITIES	Ancient History or Anthropology	Social Studies

CONTINUED CR ADDED LEARNING ACTIVITIES

Publications:

Library-books pertaining to food and tools of Stone Age:

- Graven with Flint, F. Coe. First Horseman, P. Crowell. How the First Men Lived by
- Man's First Million Years by J. Lucas

Excerpts from Golding's, The Inheritors.

Audio-Visual:

Kit 8; Conservation - A Picture Discussion Kit, I-C-E - RMC materials - I-C-E bibliography of available Tips for a Good Field Experience, I-C-E - RMC materials -Vertical file See sources of Environmental AV

Community:

Local sporting goods dealer



E.	S. E. A. Ti	tle III –	PRO-	JECT	I-C-E 59)-7 0-013	54				
	GIV I CIMEIC.	Suggest several changes in man's technology which would lessen man's negative impact on his	Affective:		system.	List one area where man's misuse of the environment has had a negative effect on the eco-	Cognitive:	BEHAVIORAL OBJECTIVES	ORIENTATION Land Use and Abuse	CONCEPT NO. 2 - Ecosystem	Environmental:
2. Show "Junk time.	1. Discuss the pact of exililustrate on the eco	bowl". C. Research road buildi cedures. D. Show film "Jumkdump"	living c. Causes	a. Lack b. Inter	and its effect things in that l. Take notes noting especial	A. Show film depict B. Students locate articles which property and the "comparts on the "co	In-Class:	STUDEN			
nkdump" a s ec ond	the possible im- existing situations, rated by the film ecosystem.	d building pro- lamkdump".	ng organisms es of the "dust	Lack of fo o d Interdependence o f	et upon all living at area. s on reading, all ally:	depicting "dust bowl", ocate books or hich provide inforthe "dust-bowl" years		ENT-CENTERED LEARNING ACTIVITIES	TOPIC/UNIT U.	SUBJECT S	Integrated with:
		0	·	æ		Α.	0	RNING	S. His	ocial	
	Note: This activity provides positive motivation to student concerning land abuse.	Come Fly With MeAny season Field Activity Guide, I-C-E - RMC	Visit dumping area.	Visit quarry or gravel pit.	<pre>l. In class, have children list or draw a diagram of interrelationships they ob- served.</pre>	Visit farms and observe the interdependence of plants, animals, and humans.	Outside or Community:	ACTIVITIES	History, Geography, Current Events	Social Studies	

Skills Used:
1. Using library aids to locate books.
2. Reading to find specific information.
3. Discussing.
4. Observing.

Note taking.

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Man, Land: Williams College Center for Environmental Studies, The First Two Years, William Carney, Williamstown, Mass.: William College, Dec., 1969 Plants, Man, and Life, Edgar Anderson, University of Calif., Berkeley, 1967

Audio-Visual:

Dust-Bowl, #6G30
Bureau of Audio-Visual Inst.
1327 University Avenue
P. O. Box 2095
Madison, Wisconsin 53701
Junkdump; I-C-E - RMC
Kit 21, Eco Lab: A Study of Rural
and Urban Ecology, I-C-E - RMC.
Kit 25, The Land Use Game,
I-C-E - RMC

Community:



CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Newspapers:
Social Studies textbooks or
materials on the U. S.
Encyclopedias.
History of school, community,
from local city library.
Time magazine.

Audio-Visual:

Bridge to Inquiry:
Unit III - America's Environment.
Unit IV - Our Ailing Cities.
(Univ. Microfilms)

A Xerox Co.
Ann Arbor, Michigan
Game, The Planet Management Game, SG 7 I-C-E - RMC
Films:
#430 - Urban Sprawl - I-C-E - RMC
#5937 - Population Problem: U.S.A.:
Seeds of Change
BAVI, Madison, Wis:

Community:



E. Title III - PROJECT I-C-E A. 59-70-0135 Skills Used: Affective: ORIENTATION CONCEPT NO. Cognitive: BEHAVIORAL OBJECTIVES **Environmental:** wastefulness in his daily liv-Demonstrate an awareness of the duced or eliminated waste for one day. Suggest several ways that the ing by identifying examples of tal environment. or have destruction of the tolems with a limit of five days al leaders solving food probrole playing different nationin the life of any system by ing capacity is a vital factor Verbally demonstrate that carryidentified wastes could be re-Discussion Problem solving Library research Interview techniques World Hunger 3 - Carrying Capacity D. m \mathbb{C} œ In-Class: Discuss: How have some countfloating factories, cremation ries overcome crowding? Japan capacity of a densely populated Write a report on the carrying area. <u>\</u> Discuss the: After researching world hunge amount? month, can 2, 3, 4 or more quires "x" amount of food in a Problem: people survive on that "x" cussion on: conduct a motivational disor filmstrips on the problem, problems and/or viewing films Social reactions to an Physical Menta 1 World Hunger Problems adequate diet. Amount of food in a closed countries. system is limited. India and other Asian STUDENT-CENTERED LEARNING ACTIVITIES If one person re-SUBJECT Integrated with: TOPIC/UNIT Carrying Capacity and/or Current Events Social Studies D. <u>.</u> ä A **Outside or Community:** ment officials to speak on Have the class do research solutions of the future. leaders solving food problems
--time limit of five days or present problems and hoped-for Invite City Planner to speak on in overcrowded areas. problems of law enforcement Invite local law enforcedestruction. Role play different national on how nations have tried to solve their food problems.

rather than burial, vertical
growth of cities (skyscrapers).

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

The Population Bomb, by Paul Ehrlich, 1968, Ballantine Books, Teacher's Reference.
Wildlife Communities, by Clarence Hylander, 1966, Houghton-Mifflin Company.
The Social Sciences, Concepts and Values, Grade 6, by Jovanovich, 1970, Harcourt, Brace and World

Audio-Visual:

See sources of Environmental a-v materials - I-C-E, Bibliography of available materials - vertical file.

Kit 14, The Ecological Crisis, I-C-E - RMC
Films:
#7160-7161; Hunger in America B.A.V.I., Madison, Wis.
#3583; Fcod and People B.A.V.I., Madison, Wisconsin

Community:

Local health officer Interview or as guest speaker Local law enforcement officer



*****	E. S. E. A.	Title III - PF	ROJECT I-	-C-E 59-70-	135-4			
Skills Used: 1. Interviewing 2. Cause and effect thinking. 3. Problem solving. 4. Writing letters seeking information. 5. Discussion	Join in a class discussion sug- gesting reasons for the rumber of people living in their com- munity.	Affective: Support the need for population control as well as the preservation of productive agricultural land.		tactors which determine carry- ing capacity (climate, water, soil, etc.) on completion of these activities.	Cognitive: List on a piece of paper five	ORIENTATION Population vs. Food	CONCEPT NO. 3 - Carrying Capacity	Environmental:
	these additives there ex- ists an ultimate limit of production.	Fertilizer, crop rotation prevention,	<pre>involving overpopulation. C. List variables which can in- crease the productivity of the land</pre>	in relation to food and area in which the aletter to contour to get information that may have been	5	Supply TOPIC/UNIT Ge	SUBJECT	Integrated with:
1 0	crease production? C. Ask local farm agent to accompany class and point out new methods being experimented.		tigate an area (sion (lacre). etermine amount	the class how many peophis farm can support in addition to his own fan Is there an absolute nuhis farm will support?	1.77	Geography or Current Events	Social Studies	

Publications:

Books and Booklets - Bibliography of available materials, I-C-E.

Audio-Visual:

See sources of Environmental AV materials I-C-E bibliography of available materials Vertical file.
Film:
#3583; Food and People,
BAVI, Madison, Wisconsin

Community:

American Agricultural Association Local college Sociology Dept. Univ. of Wisconsin - School of Agriculture

CONTINUED OR ADDED LEARNING ACTIVITIES



4 - Water

SUBJECT

Social Studies

ORIENTATION

Water Uses

TOPIC/UNIT Geography

	E S. E	. A. Tit	le III -	- PRO	DJECT	I-C-E	59-	70 –013	5-4	1
Skills Used: 1. Identify characteristics of various fish. 2. Speak in a clear voice. 3. Speak in his own words. 4. Show colored illustration. 5. Ask for questions at end of report. 6. Discussion			adequate supply of clean water.				water is essential for life.		•	BEHAVIORAL OBJECTIVES
		C.	B					A	In-C	
balance? 2. Can an existing imbalance be corrected? How? 3. Why do we need to maintain a balance?	class discuss the of nature within iver, and stream.	Show Film, "Fishing Five Great Lakes".	Show film, "Wisconsin Fish" (tells about 21 fish in color).	experiences. 5. Fishing is an industry.	catch. 4. Allow students to tell	many l ling? kinds	l. How do we use water in lour daily lives?	Have class answer and dis-	In-Class:	STUDENT-CENTERED LEAR
	c.				œ	,		Α.	Out	LEARNING
21	Have a member from the Dept. of Natural Resources talk to class about fish and fish management.	2. Student should draw, color or paint a large illustration of his fish on 12" x 18" paper.	report this information to class.	l. Each student should se- lect one fish and make a	arm to e follo	 Learn why we have fish hatcheries. 	2. Notice all the care given to young fish.	Visit a fish hatchery. 1. Observe the raising of fish at different stages	Outside or Community:	ACTIVITIES

Publications:

Fish Guide to Familiar American Species, Zim and Shoemaker.

All About Fish, Carl Burger.

Fish and Their Ways, Herbert S.

Bulletins - Dept. of Natural Resources:

Wisconsin Game Fish.
Wisconsin Fish Management,
Pub. 2-5-52.
Fish Habitat Development.

Audio-Visual:

Wisconsin Fish.
Funfish for Everyone
Better Fishing.
Northern Walleye Story.
Coho.
Invader of the Great Lakes.
(all films available from the Department of Natural Resources, Kit 12, Water Pollution, ICE - RMC Film #5622; Fishing Five Great

Community:

BAVI, Madison, Wisconsin

Dept. of Natural Resources: Fish manager to speak to class on fish and fish management.

CONTINUED OR ADDED LEARNING ACTIVITIES

Environmental:			Integrated with:		
CONCEPT NO	4 - Water		SUBJECT So	Social Studies	tudies
ORIENTATION _	Water Uses		TOPIC/UNIT Hi	story o	History or Geography
BEHAVIORAL OF	OBJECTIVES		STUDENT-CENTERED LEA	LEARNING	ACTIVITIES
Cognitive:		In-Class:	35:	Out	Outside or Community:
ree	reasons why early	A. [Examine several relief maps.	A.	Locate books on the early civilization and westward
along waterways	(A)		Discuss construction of relief maps with plaster of paris, paper mache or clay.		movements of the people in the United States. l. Note from the readings how man used and misused
		C. [Discuss possible uses of water from the early 1600's to		the water supply. 2. Note from population maps
		D	present time. Assign:		of areas that are being studied, where people settled.
Affective:			naps using either clay	B	Invite a field representative
Promote the id	Promote the idea that an adequate		technique depicting man's use of water in a rura!		of the State Conservation De- partment to discuss how water
life and there	life and there is a need for con-	_			is being used in the school community.
munities.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			_	 Discuss with representative

Skills Used:

order to conserve the could have been used in

water supply in the school

community can be put to

better use.

what can be done to clean

polluted water and how the

supply.

C.

mache or clay.

using plaster of paris, paper construction of relief maps Art teacher to explain the used the water supply in each area, and how it

- 1. Formation of relief maps from paper mache, clay or plaster
- of paris.
 Ability to express clear and concise thoughts through the media of report writing.
- person. Interviewing a resource

ERIC

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Basic Text.
Atlas.
Free road maps (for detail). Any oil company, (Standard, etc.).

iu io- 'i uai

Hen a Jay, #250, ICE RMC.

Kit 12 Ecology: Water Pallution,

Community:

Area Dept. of Natural Resources representative Art teacher



E	S. E. A. Title III -	- PROJECT I-	-С-Е 59	-70 -013	5-4	, 		,, .,,	~~~~
Skills Used: 1. Brainstorming techniques. 2. Playing a simulation game. 3. Preparing bulletin board. 4. Debating.	aware of the air pollution aware of the air pollution problem and see the need for a more active role by individuals in solving the problem.	ective:		The student will list three ways in which air pollution is harmful.	- 1	BEHAVIORAL OBJECTIVES	ORIENTATION Air Pollution	CONCEPT NO. 5 - Air	Environmental:
their own snapshots for display. 2. Use local paper. E. Propose an industry or industries of your own area and debate the pros and cons of that industry.	ep ay at at nt	C. Play simulation game Smog to discover possible solu- tion to the air pollution problem in an industrial area.	B. Show filmstrip Environmental PollutionOur World in Crisis.	A. Brainstorm the advantages and A. Organize a field trip disadvantages of industriali- to an industrial area. zation.	In-Class: Outside or Community:	STUDENT-CENTERED LEARNING ACTIVITIES	TOPIC/UNIT Current Events	SUBJECT Social Studies	Integrated with:

Publications:

Discovering American History, Holt Rinehart & Winston, 1967.

pp. 545-574.

Dirty Air, Give Earth a Chance Series, Project, Environmental Science Center.

Discussion and Debate, National Textbook Company.

Thirty Basic Speech Experiences, Clark Publishing.

Audio-Visual:

Filmstrip:
Ward's Natural Science Establishment, Inc. 1969
Environmental Pollution...
Our World in Crisis, FS, STI;
Project I-C-E Resource Center,
1927 Main Street
Green Bay, Misconsin 54301
Green Bay, Misconsin 54301
Froject I-C-E RMC.
Ibid.
Kit 1, Topics in Ecology, I-C-E RMC

Community:

Local Industries
English teachers
UNGE Environmental Sciences
Dept., Green Bay, Wisconsin

CONTINUED OR ADDED LEARNING ACTIVITIES

Audio-Visual: (Continued)

Environmental Quality Kit, Write: Dr. Pepper Co., Pepsi Cola, Oshkosh, Wisconsin

Film: Men at Bay, #250, 25 minutes, I-C-E RMC.



Publications:

Dirty Air.

Dirty Air.

Scientist's Institute for Public Information - Air Pollution.

Write to:
Project I-C-E
Resource Center
1927 Main Street
Green Bay, Wisconsin 54301

Audio-Visual:

Air, I-C-E, Resource Center, 1927 Main Street, Green Bay, Wis. Air and Life, I-C-E, Resource Center, 1927 Main Street Green Bay, Wisconsin Film: Men at Bay, 25 minutes, #250, I-C-E RMC.

Kit 1, Topics in Ecology I-C-E RMC.

Community:

Visit an industry.

CONTINUED OR ADDED LEARNING ACTIVITIES

•••



Publications:

Books and Booklets - Bibliography of available materials, I-C-E.

Audio-Visual:

See sources of Environmental AV materials. I-C-E bibliography of available materials. Vertical file. Kit 24, Ecology in the '70s, Race for Death, I-C-E RMC

Community:

Local Chamber of Commerce.
List of local pollution laws.
List of state pollution controls.
Local congressman:
Interviewed or visit to class to explair own views on pollution controls.

Division of Environment Proetection (DNR)

CONTINUED OR ADDED LEARNING ACTIVITIES



Publications:

Exploring the Old World, Follett, pp. 1-17 textbook.
Atlas, large wall maps, physical and political.
Books:
The Story of Long Ago, Southworth.
The Search for Early Man, Horizon.
Billions of Years of You, Froman.
The First Men in the World, White.
People - Places, Mead.
The Caves of the Great Hunters,
Baumann.

Audio-Visini:

Department of Intimal Resources.

Film:
Yours Is the Land, DNR

Filmstrips:
Saving the Soil, FS - ST22; ICE RMC
Kit 14, Game: The Ecological
Crisis, I-C-E RMC.

Game: Man and His Environment, ICE
RMC, SG 4.
The Planet Management Game, SG7
I-C-E RMC.

Community:

CONTINUED OR ADDED LEARNING ACTIVITIES



Title **PROJECT** I-C-E 59-70-0135 Skills Used: ORIENTATION CONCEPT NO. Affective: Cognitive: BEHAVIORAL OBJECTIVES ωΝ 4 0 determine or weigh the effect quality of life within the of natural resources on the resources found in each. and the primary natural List four geographic regions Investigate their region and region. Organizing. displays. Writing letters to gather Preparing bulletin board Making comparisons information. 6 - Resources Distribution of Natural Resources . D **. B** In-Class: **.** Discussion on what determines the type of industry mation and brochures on the Departments to procure inforshowing how the displacement display from brochures and in-Construct a bulletin board Write letters to various State and quality of life in varsist). teacher could be called to as-Set up guidelines or format jous areas of the United States tion received from the varthe industry and quality of of natural resources affects Write reports (each student, for written reports. formation received. resources found in each state. kind of industry and natural ious states. life comparing the informa-(Motivation). STUDENT-CENTERED LEARNING ACTIVITIES SUBJECT TOPIC/UNIT (English Economic Geography Social Studies œ Outside or Community: Haye class prepare a school community. class of the natural resources of the city council visit of life are affected by the how industry and quality and industry found in the school community. natural resources in the the resource person, on the classroom to inform the Have the mayor or a member list of questions to ask ႘ၟ

Environmental:

Integrated with:

Discussion

Publications:

Bibliography of available materials Books and booklets, I-C-E.

Sudio-Visual:

From Chamber of Commerce of each state.

A city map - Use to locate industrial, commercial, and residential centers within the city and/or county.

Community:

English teacher for report guidelines.
Mayor council member.

CONTINUED OR ADDED LEARNING ACTIVITIES



	F. S. E. A. Title !!!	PROJ	ECT 1-C-E 59-	-70-0135	-4		Paralle Garrie Color	Pilipan - Por	T- sign activities
Skills Used: 1. Applying the principle - change. 2. Writing letters to receive information. 3. Drawing out necessary in- formation for the construc- tion of a map. 4. Constructing a "relief" floor map.	Investigate what determined land use in their community, and debate its effectiveness in promoting best land use.	Affective:	e populati future gi would sup hem.	List four problems caused by increased population density. Fyaluate two proposed methods		BEHAVIORAL OBJECTIVES	ORIENTATION Population	CONCEPT NO. 7 - Land Use	Environmental:
	D. A Land Ethic. Field Activity Guide; I-C-E - RMC.	C. Discuss why priorities should be placed on land use.	(local area) B. After studying this map, suggest possible alternate sites to present development and land use.	nstruct a relief e stages of chang olved due to popu	H	STUDENT-CENTERED LEA	TOPIC/UNIT Eco	SUBJECT Soc	Integrated with:
35		politan area with your own.	used by buildings and roadways in the "core" city and the surrounding area. B. Compare and contrast in writing or discussion, land use priorities of a larger metro-	A. Visit a growing city such as Milwaukee, Madison, etc. and note the amount of land		LEARNING ACTIVITIES	Economic Geography	Social Studies	

Publications:

Archives of newspapers.
Bibliography of available materials Books and booklets, I-C-E

Audio-Visual:

Films:
#1581, Population Patterns in the U.S.
#6937, Population Problem: U.S.A.
Seeds of Change
Both obtained from:
Bureau of Audio-Visual Instruction
S2 University Avenue
P. C. Box 2093
Madison, Wisconsin 53701
Game - Planet Management Game
SG7 I-C-E RMC
Kit 14, The Ecological Crisis,
I-C-E RMC

Community:

Chamber of Commerce Libraries Recorder of Deeds State Historical Society English teacher Art teacher Travel agencies - information, posters, city maps

CONTINUED OR ADDED LEARNING ACTIVITIES



A. Title III - PROJECT I-C-E 59-70-0135-4 ORIENTATION CONCEPT NO. Cognitive: Environmental: Skills Used: Affective: BEHAVIORAL OBJECTIVES ? w 4 at the average person in his Desire to develop a promotion area was changed to satisfy comminity. tem regarding land use aimed to establish a new value sysstances listed above. occurred for each of the inplain one reason why changes man's desires or gains. Exnatural environment in an List five instances where the Recognizing the mistakes of Understanding & comparing accumulative data Knowledge of values the past. Land Use 7 - Land Use In-Class: œ All students are assigned to which the natural environment φ man's use. Examples: make these changes in our land. reasons man may have used to Each student will then list has been altered by man for list and compile any case in (man's values) Road and bridge construction. Commercialism Civil corps of engineers Real estate profits Economic gain (short term) Recreation areas Housing projects c. Combustion engine Transportation Hydro Elec. plants Railroads STUDENT-CENTERED LEARNING ACTIVITIES Parks and campgrounds KOA & other chains Disneylands Dams (Continued) SUBJECT Integrated with: TOPIC/UNIT (tourism) Social Studies Sociology **. Outside or Community:** with people who have lived Discuss what changes have atively long period of time. occurred in the community Make a tour of the community in the community for a relin search of change. 37

Independent study & thought

processes.

Publications:

Books:

Navarra The World You Inherit, John

Our Polluted World, John Perry

This Crowded Planet, Margaret

Audio-Visual:

City Reborn, color, 22 min., \$3.50, BAVI, Madison, Wisconsin Harmony, I-C-E RMC

Man in His Environment, Coca-Cola, 1970, also I-C-E RMC

Conservation: A Picture Discussion Kit, Kit 8; I-C-E RMC Environmental Quality Index. Kit 9, I-C-E RMC

Community:

City Planner.

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

- Class discussion:
- Compile and compare lists of all students.
 List of values by class which led to these changes in our environment.
- Class development of new values.
- Reasons why we need new values.
- Summary.
- . D use or development in your area. Have local city planner make presentation on future land
- רדין Land Use - A Simulation Game; Field Activity Guide -I-C-E - RMC
- , TI Billboards and Signs:

Field Activity Guide - I-C-E - RMC (See attached activity)



Project I-C-E Serving Schools in CESA's 3-8-9 1927 Main Street Green Bay, Wisconsin Robert Warpinski

BILLBOARDS AND SIGNS

An Environmental Activity for Grades 5-12

Concepts Involved Integration Potential Energy 1. Social Studies 1. Carrying Capacity 3. Mathematics

- 8. Values and Attitudes 3. Art 4. Language Arts
 - 9. Manage, Manipulate, Change 11. Individual Acts

 - 12. Stewardship

Introduction

Advertising billboards, sales promotion, informational, and directional signs are a part of our everyday life. They vary only in number and intensity in different types of communities. There is a need and a purpose for signs and billboards ranging from providing necessary information to pure and simple economic exploitation. In the worst sense, they can create a monster called visual pollution that is both a real physical threat and an affront to our aesthetic senses. The issue then is to discriminate between what is necessary and desirable and what is unsightly and offensive in the number, kind, and type of signs and billboards. accomplish this we need to focus and sharpen our senses of perception and visual discrimination. And finally, when necessary, we must be committed to some action in a rational way, at least to be able to offer some suggestions for improvement.



Billboards and Signs - Activity Worksheet Q (Individuals or teams of 3-5)

 Identify the area limits of survey -- draw a sketch of the streets, label them.

2. Take one, or several, pictures from a vantage point that best takes in the survey area: Locate your vantage point on sketch above by a

3. Tally of commercial signs:

a) Identify type of business	b) Number of signs for each
	Account to the second s
Total Number	Total Number



4.	Tally of public control, dire	ection, information signs
	a) Identify kinds of signs	b) Number of each kind
	·	
	Number of Kinds	Total Number
5.	Count and describe any other area not included in Items 3	signs or billboards in the or 4:
	a)	
	b)	
	c)	
	d)	
	e)	
6.	From the list of signs/billb	oards noted before
	a) Select one most necessary	and explain why:
	b) Select one most unnecessa	ry and explain why:
	c) Select one most attractiv	e and explain why:
	d) Select one most unattract	ive and explain why:



7. Select one commercial establishment, critique its use of signs and make suggestions for improvement.

8. Comment briefly on total perception, recommend any improvements you would make and tell why.

Resources: I-C-E RMC

115

Jo	
120	GEE, Our Man-Made Environment, Book 7
Film	Noisy Landscape, 13 1/2 min., color (Donated by NEW Chapter, American Institute of Architects)

DeSchool Primer: Your City Has Been Kidnapped

Integrated with:

SUBJECT Social Studies

CONCEPT NO. 7 - Land Use

Environmental:

ORIENTATION Water Resources & Population Growth

TOPIC/UNIT <u>Fconomic Geography</u>

***************************************	E. S. E. A. Title III -	PRO	JECT I-C-	-E 59-7	700135	5-4	,
Skills Used: 1. Map making 2. Interdependence of man 3. Effect thinking 4. Reading map symbols 5. Letter writing to gain information.	Defends the importance of water resources as a deter-minant of population growth.	Affective:			State three reasons why world trade centers grew where they	Cognitive:	BEHAVIORAL OBJECTIVES
of water to the location of cities.	C. Class Oriented Activity 1. Note connection between trade position & world importance of nation. 2. Prepare written reports discussing the location of trade centers and their effect on the environment. 3. Observe maps of the local area to note the importance	portance of water to location of major cities.	of U. S. cities, se centers. aps should	1. Show important cities, searorts, trading centers. 2. Note location of same.	A. Draw individual maps which represent Europe of 1400-	In-Class:	STUDENT-CENTERED LEAF
	D.		c.	8	A.	Ou	LEARNING
43	Locate industries on local waterways.	it has on local waterway.	fects of an adequate water supply. Visit local sewage treatment	their locations. Member of Regional Planning Commission to speak on ef-	Request the Dept. or Natural Resources to supply information areas of Wisconsin &	Outside or Community:	ACTIVITIES

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Books and booklets:
Biblicgraphy of Available
Materials of Project I-C-E World Atlas

Audio-Visual:

Film: 0667 Europe-Industrial Western (Factories, Mines & Waterways) BAVI, Madison, wisconsin ≇400 Boomsville, I-C-E RMC 3730 Transportation: American Inland Waterways, BAVI

=320 The Stream, I-C-E RMC =280 The Gitts, I-C-E RMC Kit: #12 Water Pollution, ICE - RMC FS Stl; Environmental Pollution: Our World in Crisis, I-C-E RMC I-C-E

Filmstrip:

Dept. of Matural Resources Local Planning Agency

Community:



Environmental:	Integrated with:	
CONCEPT NO. 7 - Land Use	SUBJECT Soci	Social Studies
ORIENTATION Urban Transition -	Transportation System TOPIC/UNIT Soci	Sociology-Population Density
BEHAVIORAL OBJECTIVES	STUDENT-CENTERED LEAF	LEARNING ACTIVITIES
- 1	In-Class:	Outside or Community:
hree reasons why type	situation by	A. Ask a real estate developer
of transportation systems have changed in his region over the	tions:	to discuss
last twenty years.	 Why is the area you live in or attend school in a 	project.
eac	, <u>-</u>	B. Area retail store could
of transporta	not a Wilde	supply
	changed in last 50 years?	years' experience to share
60 6116 6114 (1 6 1111)	nc	class. His presentation
	in guestion? How many	should center on how his prod-
Affective:	, ,	ucts have changed over the
explain the	are now extinct?	year 5.
t affect char	4. Has character of town	C. A representative from the
of land and the population	i.e., industry, people,	city transportation depart-
(recreation?	change goals for his depart-
	5. The students may want to	ment.
	throw in several	
	B. The above questions can be "answered" through a variety	
	of approaches:	
	ritten report	
CLIP II.O.	& photographs of "now".	educa ed
1. Interviewing	•	
	to classes.	
	3. Slide presentations plus	and areas
	4. Construct large pictures of	
	extinct wildlife - use	45
	proj	
	ability is lacking.	

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Use of local library files
Use newspaper files
Publications showing wildlife their habitat, etc. from:
Dept. of Natural Resources
Conservation Department
Your assemblyman or senator good source of materials.

Audio-Visual:

Movies - showing growth of industry related to area.

- A. Check local industry for materials & films.
- B. See sources of environmental materials I-C-E Biblio.

Community:

Local farmer who has sold land for urban development. Real estate developer Member of the city road commission



mental change he things is neces-

sary in his community.

Integrated with:

Environmental:

CONCEPT NO

ORIENTATION

SUBJECT

TOPIC/UNIT

Economics

Social Studies

STUDENT-CENTERED LEARNING ACTIVITIES

Have students do research ment. (local level) being spent on the creas of land, water, and air improveon the costs of/or the money

P

Outside or Community:

; >

In-Class:

- this is being done. l. May build displays on how
- according to student's intergroup work on the displays est may be done. Depending upon class size

Affective:

the priority of changes needed Demonstrate their awareness of

area in the order of importance lems by listing needs of their to improve environmental prob-

- whole with oral presentations. presented to the class as a 2. Information obtained may be
- and how they need backing, ments in their areas. and estimate how much money Students will go out into scientific resources tion needs, new laws passed needed, political appropriait would cost for improvethe local area to evaluate needed). involved, resource people (Cost
- plays of local problems). their area (Tisting of priorin resource people and disin their local area, getting ities of their area as needed Group eyaluations of
- case for their interest area. Each group will present their A list of class priorities be evaluated by the class. Present their priorities. will evolve. Each group's priorities will Group activity as a whole

- Research
- Organization of data
- Presentation of material
- Interviewing resource people
- 90450 Collecting data Making graphic displays

Publications.

Books

The Story of the Plant Kingdom by Margery Milne, Prentice-Hall Arthur Galston, Prentice-Hall Man and the Good Earth by Anabel and Ellis Williams Dorothy Hogner Merle Coulter and Howard Dittmer Plant Life, Lorus Milne and Conservation in America by The Life of the Green Plant by oil: Use and Improvement by

Audio-Visual:

BAVI

=2359 Vital Earth (This), EBF, =2384 Water Supply, Academy, 1947 =4816 Water for Farm & City, USDA, =5079 Conserving Our Soil Today, =4545, Life in . Cubic Foot of Air, #1723 Pond Life, EBF, 1950 Loronet, 1960 EBF, 1954 =3255 Life in the Grasslands Coronet, 1953

CONTINUED OR ADDED LEARNING ACTIVITIES

PUBLICATIONS (Continued)

Books:

Adaptation by Bruce Wallace and Adrian Srle.

Additional Interdisciplinary Areas

- Water analysis activities (nutrients, pollutants, flow, temperature changes (causes and effects of), mapping of water sources, uses of the water supply and effects (organism life) Land (soil classification, soil testing for acidity, soil plant life relation, land forms).

 Air (testing air quality, air relationship with living organisms,
- causes of pollution).

Social Studies

- Study of local government-state federal. (structure-elected and appointed officials, authority, committees, how bills are written, how a law is passed).
- Have students write a bill on an environmental problem arrived at from the list of priorities.
- Role-playing concerning the passage of this bill. follow the procedure studied. This would

Study of:

=2486 Work of the Atmosphere, EBF 1935

The Land Use Game, ICE

Community:

- Costs involved in setting up of environmental programs
- Budgets of local, state, and federal government
- Concepts:
- Ratios
- Decimals Fractions

above.

Multiplication, division, subtraction, and addition of the

CONCEPT NO. 8 - Values and Attitudes

SUBJECT

TOPIC/UNIT

Current Events

Social Studies

ORIENTATION

Attitudes

E. A. T	itle III – PRO	DJECT I-C-E 59-70-0135-4	
	Affective: Accept the fact that different factors and ideas affect people's attitudes toward land use.	Cognitive: Explain that cultural, social, economic, and political factors affect a person's views of the environment using a specific occupational group as an example, in a panel discussion.	BEHAVIORAL OBJECTIVES
by: a. Researching newspaper articles b. Pictures from magazines	select several members to represent their views on discussion group. 2. Entire group will be responsible for preparing their representatives for discussion	of is-	STUDENT-CENTERED LEA
		Outside or Community: A. Library (I.M.C.) research done by group members. B. Interviewing resource people associated with th various interest groups.	LEARNING ACTIVITIES

- various interest groups.

Affective:

- Pictures from magazines
- associated with groups Interviews of local people involved.
- Prepare charts-statistics
- Prepare bulletin board

Skills Used:

402

Public speaking

Interviewing skills

Organizing materials

Information gathering

- from texts, etc. Dig out background info.
- Arrange to group Write to various interest " information. round-table

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end to see which group presented best argument. fore involved - take vote at discussion in class not hereto-

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Newspapers and magazines
30 Basic Speech Experiences,
Clark Publishing Co.
Speaking by Doing, National
Textbook Co., Ill.

Audio-Visual:

See I-C-E Bibliography of Available Materials

Community:

Local resource people



A. Title III - PROJECT I-C-59-70-0135 Skills Used: Affective: Cognitive: BEHAVIORAL OBJECTIVES ORIENTATION CONCEPT NO. Environmental: good. ယ practices and stating they are community by identifying such conservation practices in his Demonstrate an appreciation of regional planning. 3 reasons for the necessity of Define regional planning. Converting written informa-Letter writing Discussion mural form tion to chart, graph or 8 - Values and Attitudes Attitudes **.** T ш 0 . **B** P ? Construct graphs showing popcal areas & issues - could These activities deal with lo-Display of old photos of area. mural depicting conservation last 100 years of an area, or a Construct a mural depicting the and use changes. ulation trends & corresponding Set up student groups: district). Class discussion of problem acres of farmland annually" are taking over 1/2 million "Highways, cities, airports Set up unit using fact: practices in their community. local level (city-school Are there possible alter-Construct a large chart, nate sites? Where? such a situation exists List local places where gathered through letters. according to information situation in various states mural or picture graph presenting to class the propriate information. ing states requesting ap-Write letters to surround-STUDENT-CENTERED LEARNING ACTIVITIES SUBJECT Integrated with: TOPIC/UNIT Social Studies Geography - Urban Growth A Outside or Community: Visit the local airport and compare the benefits of air of air transportation. Also observe and discuss benefits vironmental factors. transportation with the en-

areas of the United States

branch out to include other

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

1970 Index - National Wildlife
Federation
I-C-E Bibliography of Available
Materials

Audio-Visual:

Man and His Environment Game, Coca-Cola Co., I-C-E RMC Kit 27 - Changing Man's Values, I-C-E RMC Kit 28 - Saving What's Left, I-C-E RMC

Film: #430; Urban Sprawl I-C-E - RMC

Community:

Chamber of Commerce Highway Dept. representative Local airport

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Environmental:	CONCEPT NO. 8 - Values and Att	ORIENTATION Attitudes	REHAVIORAL ORJECTIVES	Cognitive:	State two attitudes and values toward his environment.	State two attitudes and values that are commonly held by a culture different from his own.	Predict the resulting problems to		values and attitudes of culture enters into an Affective:	values and atticulture enters culture enters Affective: Students will the and recognize to servation practical and control of the serv	values and atticulture enters culture enters Affective: Students will the and recognize to servation practication practication practication and recept attitude monly adhered the even though the	Affective: Students will the and recognize to servation practication practication practication and recept attitude monly adhered the even though the from his own.	Affective: Students will be and recognize to servation practive monly adhered the even though the from his own. Skills Used:	Affective: Students will be and recognize and recognize and recognize and servation praction praction and recept attitude monly adhered a even though the from his own. Skills Used: 1. Comparison, 2. Soil consens. 2. Soil consens. 3. Establishin survival.
Integrated with:	Attitudes SUBJECT So	TOPIC/UNIT Co	STUDENT-CENTERED LEA	In-Class:	A. Using the text or outside resource material, determine	the amount of goods vices the average in America uses in	l. Contrast this with the basic needs of people of	B. List things Americ essential to their	1. Compare these with another culture.	C. Have individuals list the goods and services their families		· .		
	Social Studies	Comparative Economics	LEARNING ACTIVITIES	Outside or Community:	A. A visit to local landfill site will graphically dis-		B. Visit to local industry, pref- erably a "luxury" item.	C. Visit to local farm to investigate the methods used to conserve the soil.	D. Invite a soil manager from local firm or state agency to tell class about soil con-	E. Invite student from country	local university to explain soil conservation in his country.	F. Invite exchange students in from other countries.	G. Invite people in from another	

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

National Geographic magazine Farmer's Bulletins, No. F2171, "How To Control A Gully", 1961, Dept. of Agriculture Agriculture Information Bulletin, No. AIB95, "The Soil That Went to Town."

Audio-'/isual:

BAVI, Madison, Wisconsin
#4756 Land & People of India
#2680 Land & Ferble of Japan
End of the Trail, Brown County
Library
Story of the Plains Indians
Brown County Library
Kits:
Environment: Changing Man's
Values, Kit 27, I-C-E RMC
Saving What's Left, Kit 28, ICE-RMC

Community:

Soil Conservation Department Landfill site



Integrated with:

CONCEPT NO. ___

ORIENTATION

8 - Values and Attitudes

Attitudes Toward Forest Resources

SUBJECT

TOPIC/UNIT

Geography - Conservation

Social Studies

E. S. E. A. Title III **PROJECT** I-C-E 59-70-0135-4 4. Appreciate the value of trees and nuded areas. the need for reforestation of de-Skills Used: ment and explain how it influattitudes toward forest manage-Affective: ences his environment. Cognitive: Demonstrate one of man's BEHAVIORAL OBJECTIVES present your information Plan order in which you will Decide which details to Take careful notes Select info about your tree include <u>.</u> 8 In-Class: and report to class. special study of one local tree Discuss, after preparation, Introduce unit on trees with shape, height, leaves, maturity, Each student will make a coniferous, and tree farming. paint illustration of your bark, kind of soil, value of for study are: break, shelter, deciduous, "Trees for 2001". tree and its uses, draw and the following terms: Windthe following filmstrip, trees Class discuss trees and their value. STUDENT-CENTERED LEARNING ACTIVITIES Points 8 **Outside or Community:** woodlot, also how trees Invite a forester to speak prevent erosion. Trip to tree farm. tree farming, value of a to class explaining about

(continued)

Publications:

Books and Pamphlets:

Trees, Marlin Zim.
Forest Trees of Wisconsin
Trees of the Lake States
Trees and Game-Twin Crops
Protecting the Forests
Wisconsin Forests
Smokey Bear's Story

Audio-Visual:

Filmstrip:

FS ST23; Trees for 2001 I-C-E - RMC

Community:

Department of Natural Resources Ask a forester to speak to class on the subject of trees

CONTINUED OR ADDED LEARNING ACTIVITIES

SKILLS (Continued)

- 5. Plan an interesting introduction.
- 6. Plan a good concluding sentence or paragraph.
- Proofread your report carefully.
- 8. Discussion.

E. A. Title III -PROJECT I-C-E 59-70-0135-4 Affective: Cognitive: BEHAVIORAL OBJECTIVES ORIENTATION CONCEPT NO. Environmental: Defend the wildlife conservation vent wildlife from becoming expyramid of wildlife. List 5 regulations. Draw and verbally explain a food Taws that were enacted to pre-Conservation 9 - Management **B** In-Class: size 18 x 24 and display Each student is required to with a movie that shows coordination with an art and on bulletin board. is interested in. Then do a large painted illustration, Introduce a wildlife unit report on one animal that he Beaver Valley or Hunting Suggestions for movie: many animals. hroughout the Year. This may be done in wild animals. Talk about animals. experiences pertaining to Students may tell of their

Integrated with:

SUBJECT

TOPIC/UNIT

Geography

Social Studies

STUDENT-CENTERED LEARNING ACTIVITIES

Outside or Community:

- Class should take a trip wildlife. are good displays of mounted to a museum where there
- of Nature. class about the Balance sources to talk to your of Dept. of Natural Resuch as a game manager Invite a resource person

.

of wildlife, our hunting laws and their needs. Show movie, Red 14. Protectors of the Outdoors, or (Both movies are about wardens Discuss the conservation

and their work).

rectly and in turn may teach Students will learn them cor-Shooting Safety. Ask a warden firearms and show the movie, to talk to students explaining them to someone else. laws and rules of hunting. Discuss the safety of

S.

English teacher.

Skills Used:

Reporting with an outline

Name of animal

Characteristics

- Habitat

Food

Conservation practice

Any experience with animals (contin

(continued)

Publications:

Library suggestions: Animal Sounds Mammals by Zim Hoffmeister Animal Camouflage

Audio-Visual:

Bulletins:

Mammals of Wisconsin

Animal Tracks

Wildlife, People and the Land

Films: (DNR)

Beaver Valley

Protectors of the Outdoors Hunting Throughout the Year

Shooting Safety Whitetails in Winter

Nature's Half Acre, #210; ICE RMC

Ecology Kit 4 - I-C-E RMC (cont'd.)

Game warden Department of Natural Resources representative

Wildlife manager

CONTINUED OR ADDED LEARNING ACTIVITIES

AUDIO-VISUAL (continued)

Kits:

Focus on America's Northeast, Kt 15; I-C-E RMC

SKILLS (Continued)

Poster activity

- Study pictures of animals that student is making a

special study of

crayon (can be newspaper)When animal is satisfactory, cut out and transfer to Practice drawing animal on large paper with a black

Draw in a fitting habitat; then paint poster paper

Allow students to help each other with constructive help



Publications:

Various social studies books Geography book of the U.S. Encycloped ias
Reference books

AUDIO-VISUAL (Continued)

CONTINUED OR ADDED LEARNING ACTIVITIES

Kits:

A Study of Urban and Rural Ecology, I-C-E RMC Environmental Studies, 64 Activity Cards, I-C-E RMC

Audio-Visual:

Reference maps of physical features
Films, A-V materials
Free mass, posters of areas from travel agencies, airlines, gas stations, etc.
Film:

Harmony, #340; I-C-E - RMC

Game:

Man in His Environment, SG4; I-C-E RMC See sources of A-V materials in ICE Bibliography of avail.materials

Community:

(continued)

County forester
Have someone from the community
involved in timber production
talk to the class.



	E. S. E. A. Title III - PRO	OJECT I-C-E 59-70	0-0135-4	-
Skills Used: 1. Speaking before group 2. Charting information 3. Designing of displays 4. Bulletin boards 5. Reading newspapers	Affective: Promote that short-term gains are not always the most beneficial to man. Dispute a statement that in which a non-environmental factor is given priority over an environmental factor.	nis environment with short-term economic gains that will produce long-term environmental losses.	Cognitive: Through a graphic presentation, demonstrate that man can change	·
_, , ,, , , , ,	include: 1. Maps showing areas of country in question - perhaps a combination of maps showing growth of industry across the nation. 2. Chart or graph showing the number of people involved, money, etc. 3. Visual display (if possible) of products of industry	Jumber Jumber e a fe and puttions. tions. tions	In-Class: Divide class into groups (approx. 4 to group).	Integrated with: SUBJECT TOPIC/UNIT STIPPENT_CENTERED III
6		B. If possible, visit an area where short-term economic gains may result in long-term environmental loss.		Social Studies Geography or Current Events

Publications:

Reference books dealing with industry under investigation Magazines, newspapers Publications dealing with our state's natural resources

Audio-Visual:

Video-tape of news, etc. These would have to be supplied by the teacher.

Film:

Harmony, #340; I-C-E - RMC Game:
Man in His Environment, SG4;

I-C-E - RMC

A Study of Rural and Urban Ecology, KT 21; I-C-E - RMC

Community:

Industrial leaders, owners to visit class
Visit local industries
Chamber of Commerce
Resource speakers

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

- . (Second part of presentation would be "As result of)
 industry growth, have we lost anything?"
- Maps or charts showing decreased wildlife, natural resources, etc.
- How does the use of product affect the environment? Example: cars air pollution -- oil pipe lines, well lines ship wrecks -- housing mud slides.
- Mount news articles showing losses.
- Possible 3D model of environmental change. Example from forested area to cut over area, poorly designed housing development.



	Environmental:	Integrated	d with:	
	CONCEPT NO. 10 - Economic Planning	ning SUBJECT	Social	Studies
	ORIENTATION Land Abuse	TOPIC/UNIT	NIT Eurasian	ian History, Geography, Current
			Events	ts
4	BEHAVIORAL OBJECTIVES	STUDENT-CENTERED	RED LEARNING	ING ACTIVITIES
5-4	Cognitive:	in-Class:		Outside or Community:
<u> </u>	_		어 	A. Students can investigate
)—(causes incre	the Eastern		
-70	disturbs balance of the exis-	on t		without providing for re-
9	system & lead	the forest cover and soils	ils of	forestration.
_5	vation to fu			B. Students can investigate
E	generations.	ilm or filmstr	on -	the problem of grazing
)		showing	present	
(luate a given procedure	agricultural methods and		C. Visit contrasting woodlots
<u> </u>	(88	problems.		including the possibilities:
C.	storing the ecosystem to its	latio	ween	
JJE	state in 1900.	,	land and the	2. Protected woodlot.
PRO	Affective:	unwise forest management in	ר זה די	4. Selective cut woodlot har-
	Accepts the idea that land	ddle East and	prob-	
11	leted of its life	erica could	face in the	ment plan approved by
) [t on the	future.		.
itle	of living of future generations.	s construct		
٠. ٦		200 vears from now (given n	(aiven no	RMC
. Д		outside source of resources	ces	
E			that could	
S.			to main- !	
Ε.		tain our torest & soll		
		resources.	/s +o -	
	Skills Used:	protect a		
	Library skills.			
	ם ת			
	5. Observation.			63

6. Prediction.

Publications:

National Geographic articles on the countries of the Middle East (Balkans-Greece)
USDA pamphlets on problem of grazing in the woodlot
USFS & DNR publications on caring for woodlands

Audio-Visual:

The Middle East, BAVI, #3265
Trees are a Crop, B.VI, #2269
Harmony, #340, I-C-E - RMC

Game:

Man in His Environment, SG4; ICE RMC

Junkdump, #310; I-C-E - RMC Cry of the Marsh, #390, I-C-E - RMC I-C-E Bibliography

Community:

DNR District Forester
USFS District Ranger
County Agriculture Extension
Office
Soil Conservation Service
Local Woodland Owners
Local sawmili operator

CONTINUED OR ADDED LEARNING ACTIVITIES



E. S. E.	A. Title III - PRO	DJECT 1-C-E 59-70-0	135-4		
Skills U.ed: 1. Observing 2. Listing 3. Reporting 4. Art work 5. Researching 6. Discussion	Affective: Attempt to recommend how man should gear his technology, taking into consideration environmental losses which might evolve.	resulted in long-term environ- mental losses.	10	ORIENTATION Technology BEHAVIORAL OBJECTIVES	Environmental: CONCEPT NO. 10 - Economic Planning
	C. Students will discuss how man's technology should consider environmental effect.	to class such Look, Fortung pictures of a shortcuts. Arrange picture and write a shoreeach picture effect such	In-Class:	TOPIC/UNIT EC	Integrated with:
65	the effect such short-term economic gains will have on environment.	ш	Outside or Community:	Economic Geography, Current Events LEARNING ACTIVITIES	Social Studies

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Man & the Biosphere, Rand
McNally Co.
Air and Water Pollution, Permabound Books
God's Own Junkyard, Holt, Rinehart
and Winston, 1964

Audio-Visual:

What Are We Doing To Our Vorld,
BAVI
Junkdump, ICE RMC, Film #310

Community:

City engineer Industrial ecologist



	Environmental:		Integrated with:	
	CONCEPT NO. 10 - Economic Planning	ng	SUBJECT	Social Studies
			TOPIC/UNIT	Economic Geography, Current Events
····	REHAVIORAL OBJECTIVES	S	STUDENT-CENTERED LI	LEARNING ACTIVITIES
<u>-4</u>	i i	In-Class:		Outside or Community:
0135	List three ways harvesting forests	A. View film	The Forest Produces.	A. Class will visit a sammill and observe the process of
<u>-70-</u>		B. Proceed w	with the suggested classroom activities.	trees to lumber, also the area where trees were cut
59	Construct an appropriate manage-	d	Porest Conservation.	down.
-Е	es:	!		B. Students may take pictures
1-C		D. Discuss a need for	and emphasize the good forest management	
OJEC1	c. cutting			C. Students will orally report on the loss of forest lands
PRO	Affective:			with the aid of pictures.
tle III -	Evaluate the environmental losses and make suggestions for reforestration.			D. Forester visiting class to explain misuse of trees and tree farming.
. A. T				E. Class may visit local paper mill.
E. S. E				F. Class may visit a lumber yard.
	Skills Used: 1. Observing 2. Reporting			
	***************************************			67

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Trees and Forests, Stanley M. Jepsen
The Life of the Forest

Audio-Visual:

Films:

The Forest Produces, BAVI Forest Conservation, BAVI Harmony, ICE RMC, Film #340

Commerity:

Dept. of Natural Resources Forester



Ecology SUBJECT STUDENT-CENTERED I In-Class: In-Class: A. Brainstorm and make a list of the ecological occupations in and around the surrounding metropolitan area. B. Construct a "loose-leaf" book from the list of jobs and information gathered from interviews. C. Construct a career bulletin board and display center. 1. Use information from any conceivable source. (colleges, newspapers, magazines, etc.) the D. Debate the "pros" and "cons" of any two controversial careers. (Real estate broker vs. soil conservationist; manager of a paper making plant vs. forester.) 1. Following any debate, discuss how two interest groups with seemingly different ideas might wor towards a common goal; environmental protection.	Skills Used: 1. Finding information i library. 2. Reading for specific 3. Interviewing 4. Writing questions to interview.	Promote the importance of individual in solving the A problems of ecology. E. S. S.	Affective: Demonstrate an interes specific area of ecolo	JECT I-C-E	Cognitive: ' Report on an occupation to ecology stating the right that occupation.	BEHAVIORAL OBJECTIVES	ORIENTATION Careers i	CONCEPT NO. 11 - Indi
SUBJECT TOPIC/UNIT STUDENT-CENTERED I ainstorm and make a list of e ecological occupations in d around the surrounding tropolitan area. Istruct a "loose-leaf" book on the list of jobs and formation gathered from terviews. Istruct a career bulletin ard and display center. Use information from any conceivable source. (colleges, newspapers, magazines, etc.) Date the "pros" and "cons" any two controversial reers. (Real estate broker soil conservationist; ager of a paper making any vs. forester.) Following any debate, discuss how two interest groups with seemingly different ideas might wor towards a common goal; environmental protection.	n t info	the	. a	C B	· · · · · · · · · · · · · · · · · · ·		ם	Individual Acts
	seemingly deas might ommon goal al protect	bate the "pros any two contr reers. (Real e . soil conserv mager of a pap ant vs. forest Following an	ard an Use cond (col	Construct a from the lis information interviews. Construct a	Brainstorm and make a list the ecological occupations and around the surrounding metropolitan area.	STUDENT	TOPIC/UNIT Economics,	SUBJECT Social Studies

Publications:

college bulletins, catalogs, etc. Discussion and Debate, National Textbook Company Thirty Basic Speech Experiences, Clark Publishing

SKILLS (Continued)

CONTINUED OR ADDED LEARNING ACTIVITIES

- Construction of "loose-leaf" book.
 Constructing bulletin board and display center.
- Debating

Audio-Visual:

materials.
ICE RMC Bibliography See sources of environmental AV

Community:

Library Real estate broker People in various occupations English or speech teacher Subdivision



	Environmental:	Integrated with:	
	CONCEPT NO. 11 - Individual Acts	SUBJECT	Sccial Studies
		TOPIC/UNIT H	History - Middle Ages
	BEHAVIORAL OBJECTIVES	STUDENT-CENTERED LE	LEARNING ACTIVITIES
j4		In-Class:	Outside or Community:
700139	ally illustrate ho ual act may be ins vironmentally, but	ad about the sa sal problems of e Middle Ages.	A. Guest speakerart teacher speaking on effect of garbage on aesthetic values.
-E 59	same act duplicated many times will cause environmental alterations.	of disposing of wastes and garbage in the streets	B. Visit sanitary landfill and open dump.
DJEGT I-C-		2. Write editorials to the Middle Ages Gazette decrying the dumping in the streets.	<pre>C. Visit sewage disposal facility.</pre>
PRO	gather an	b. View films and write critical summaries of each.	
E. A. Title III	examples of what individuals are doing around the school that would destroy the environment if compounded and will suggest ways of making corrections.	C. Draw cartoons depicting garbage problems which would be applicable to both the Middle Ages and today. (Just change dress of character.)	
E. S	Skills Used:		
	 Practice in use of reference texts. 		. 440 - 440 - 4
	2. Practice in use of Reader's Guide to Periodic Literature. 3. Development of political cartoons as a propoganda device.		7
	-		S I

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

New Dimensions of World History, Frank Alwers, American Book Company, 1969
A Primer on Waste Water Treatment, Government Printing Office, 1969, 55¢

Audio-Visual:

Garbage, ICE RMC, Film #260
The Sifts, ICE RMC, Film #280
Junkdump, ICE RMC, Film #310

America's Urban Crisis, ICE RMC,

Community:

Sanitary landfill site Open dump site Sewage disposal plant Art teacher



	Mandalaya 46 un van	E. S	. E. A. Title III - PRO	DJECT I	C-E 59-70-013	54		annani - annani rati	gar Hilliaga	
 Observation. Sketching, color or paint. Possible letter writing to Congressmen. 	Discussion		Estimate possible legislation to protect water resources and send it to appropriate lawmakers.		List three conservation practices needed for the correction of the damaged river system based on his observation of a local river area.	Cognitive:	BEHAVIOPAL OBJECTIVES	ORIENTATION Water Resources	concept no. 12 - Stewardship	Environmental:
D. Brainstorming to formulate possible legislation for water presource protection.	conservation practices and after.	<pre>C. Construct a mural depicting a river and its adjacent areas hefore the application of</pre>	2. How did the misuse of the adjacent areas start erosion? 2. List four ways that these conditions can be corrected. 4. How did the misuse of the river and adjacent area do harm to other people in this area?	B. Class may discuss the following: How did this river become 	A. Students will see movies: River Valley and Rivers that show graphic pictures of many geographic features associated with development of rivers and their utility to man.	in-Class:	STUDENT-CENTERED LEA	TOPIC/UNITGe	SUBJECT So	Integrated with:
73					A. Students may visit a local river area and note the harm done, also report on any other rivers they have seen.	Outside or Community:	LEARNING ACTIVITIES	Geography or Government	Social Studies	

CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Water or Your Life, Arthur H.
Carhart
Wisc. Stream Improvement, State
Soil Conservation Committee,
Madison, Wisconsin

Audio-Visual:

Films:
River Valley, BAVI
Rivers, BAVI
Kit:

Water Pollution, ICE RMC, KT 12

Community:

Visit local river area



Judice.

Publications:

Natural Partnerships, The Story of Symbiosis, Dorothy Shuttlesworth Sportsman's magazines & publications Environmental Protection Agency publications:

Solid Waste Solid Waste-It Won't Go Away Solid Waste-It Won't Go Away Solid Waste Disposal Act The Solid Waste Management Program I-4

A Critical Study of the Great Lakes and Who Owns the Water

Audio-Visual:

Junkdump, ICE RMC, Film #310
The Stream, ICE RMC, Film #320

Community:

Local farmers
Local lakeshore property owners
Local sportsmen
Area game wardens
Local law enforcement officers
Dept. of Natural Resources

CONTINUED OR ADDED LEARNING ACTIVITIES

